

CLIENT	Higgins Construction
PROJECT	The Beeches, Brentwood, Essex
ARCHITECT	PRP Architects
VALUE	£13 million
WORK SCOPE	Construction of a new 5* Care Home



Profile

Five star care home, providing 99 private apartments, including 25 dementia rooms. The care home boasts outstanding facilities including a lounge area, laundry facilities, private dining rooms and service and Internet café, together with extensive landscaped gardens providing luxurious outdoor living space to the residents.

Brief

From an Employer's brief, NLG Associates are responsible for the design of all mechanical, electrical and public health services including undertaking a whole building thermal model, calculating all heating and cooling requirements.



Approach

During the design, NLG Associates adopted a proactive approach providing invaluable advice to the end user/ operator advising parts of the building that were overheating and providing solutions. NLG Associates modelled the first floor using Revit BIM to ensure that the sub-contractors could base their working drawings upon, and to speed up the construction programme.

Outcome

- The project deliverables include the design of a 70KWe CHP system combined with high efficiency condensing boilers to achieve a BREEAM Excellent rating.
- Fully coordinated designs were produced of all electrical, hot & cold water, heating, gas supply, kitchen / bathroom ventilation, comfort cooling as well as soil and waste drainage systems.
- The electrical services were extensive comprising of high-class lighting and small power, specialist lighting for Dementia care rooms, café and fine dining areas along with Internet areas.
- External security, CCTV, landscape and private road lighting, including a design to avoid disruption of the bats environment on the site.

